L Number	Hits	Search Text	DB	Time stamp
1	828337	DNA near5 isolat$ or extract$ or purify$	USPAT; US-PGPUB; DERWENT	2003/07/02 11:36
2	4246	(DNA near5 isolat$ or extract$ or purify$) and high adj1 salt	USPAT; US-PGPUB; DERWENT	2003/07/02 11:37
3	1354	((DNA near5 isolat$ or extract$ or purify$) and high adj1 salt) and lysis	USPAT; US-PGPUB; DERWENT	2003/07/02 11:38
4	869	(((DNA near5 isolat$ or extract$ or purify$) and high adj1 salt) and lysis) and reagent	USPAT; US-PGPUB; DERWENT	2003/07/02 11:39
5	797	((((DNA near5 isolat$ or extract$ or purify$) and high adj1 salt) and lysis) and reagent) and biological	USPAT; US-PGPUB; DERWENT	2003/07/02 11:40

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NEWS 25	Feb 26	PCTFULL now contains images
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NEWS 27	Mar 20	EVENTLINE will be removed from STN
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NEWS 29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 30	Apr 11	Display formats in DGENE enhanced
NEWS 31	Apr 14	MEDLINE Reload
NEWS 32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 35	Apr 28	RDISCLOSURE now available on STN
NEWS 36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39	May 16	CHEMREACT will be removed from STN
NEWS 40	May 19	Simultaneous left and right truncation added to WSCA
NEWS 41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 42	Jun 06	Simultaneous left and right truncation added to CBNB

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 NEWS 43  Jun 06  PASCAL enhanced with additional data
 NEWS 44  Jun 20  2003 edition of the FSTA Thesaurus is now available
 NEWS 45  Jun 25  HSDB has been reloaded

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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=> FIL BIOSIS EMBASE MEDLINE LIFESCI CAPLUS
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=> s DNA (2a) isolat? or extract? or purif?
   3 FILES SEARCHED...
L1     3627036 DNA (2A) ISOLAT? OR EXTRACT? OR PURIF?

=> s l1 and high (1a) salt (2a) solution
L2          347 L1 AND HIGH (1A) SALT (2A) SOLUTION

=> s l2 and lysis
L3            4 L2 AND LYSIS

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4            2 DUP REM L3 (2 DUPLICATES REMOVED)

=> d l4 1-2
```

L4 ANSWER 1 OF 2 MEDLINE
AN 1999247832 MEDLINE
DN 99247832 PubMed ID: 10232847
TI Osmotically driven radial diffusion of single-stranded DNA fragments on an agarose bed as a convenient measure of DNA strand scission.
AU Sestili P; Cantoni O
CS Istituto di Farmacologia e Farmacognosia and Centro di Farmacologia Oncologica Sperimentale, Universita di Urbino, Italy.. sestili@fis.uniurb.it
SO FREE RADICAL BIOLOGY AND MEDICINE, (1999 Apr) 26 (7-8) 1019-26. Journal code: 8709159. ISSN: 0891-5849.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199906
ED Entered STN: 19990712
Last Updated on STN: 19990712
Entered Medline: 19990623

L4 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1984:175360 BIOSIS
DN BA77:8344
TI FLUOROMETRIC QUANTIFICATION OF DNA IN CELLS AND TISSUE.
AU DOWNS T R; WILFINGER W W
CS DEP. PHYSIOL., UNIV. CINCINNATI, COLL. MED., 213 BETHESDA AVE., CINCINNATI, OHIO 45267.
SO ANAL BIOCHEM, (1983) 131 (2), 538-547. CODEN: ANBCA2. ISSN: 0003-2697.
FS BA; OLD
LA English

=> d l4 1-2 abs

L4 ANSWER 1 OF 2 MEDLINE
AB The present study describes the development and characterization of a novel technique, the alkaline-halo assay, for the assessment of DNA single strand breakage in mammalian cells. This technique allows the measurement of DNA lesions at the single cell level and presents the additional advantages of being rapid, sensitive, virtually costless and environmentally friendly, because it does not require the use of isotopes. The alkaline halo assay involves a series of sequential steps in which the cells are first treated, then embedded in melted agarose and spread onto microscope slides that are incubated for 2 min at ice-bath temperature to allow complete geling. The slides are then incubated for 20 min in a **high salt** alkaline **lysis solution**, for an additional 15 min in a hypotonic alkaline solution and, finally, for 10 min in ethidium bromide. Under these conditions, single-stranded DNA fragments spread radially from the nuclear cage and generate a fluorescent image that resembles a halo concentric to the nucleus remnants. The area of the halos increased at increasing levels of DNA fragmentation and this process was associated with a progressive reduction of areas of the nuclear remnants. These events were conveniently monitored with a fluorescence microscope and quantified by image processing analysis. The sensitivity of the alkaline-halo assay, which is based on the osmotically driven radial diffusion of single-stranded DNA fragments through agarose pores, is remarkably similar to that of the widely used alkaline elution and comet assays.

L4 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB The validation of a simple and rapid DNA solubilization procedure is described. Quantitative **extraction** of intact, polymerized DNA was achieved by [rat] cell **lysis** or tissue homogenization in an

ammonium hydroxide-Triton X-100 solution. The solubilization procedure inactivates endogenous DNase and increases the fluorescence-enhancement activity of the **extracted** DNA, thereby eliminating the need for enzyme treatment or exposure to **high salt solutions**. The **extracts** can be utilized directly in a sensitive fluorescence-enhancement assay with bisbenzimidazole (Hoechst 33258) reagent. Estimates of DNA cell content were unaffected by the number of cells lysed or the volume of lysate employed in the assay. In all cases, the solubilized DNA estimates were linear and parallel to the bovine DNA standard. The optimum range for estimation of DNA in this assay is 5-150 ng. In addition, estimates of DNA obtained with this method and the standard diphenylamine assay were in excellent agreement. This simple, 1-step DNA **extraction** procedure can be utilized in conjunction with Hoechst reagent to obtain quantitative estimates of DNA levels in cell or tissue **extracts**.

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=> FIL MEDLINE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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 FILE LAST UPDATED: 1 JUL 2003 (20030701/UP).  FILE COVERS 1958 TO DATE.

 On April 13, 2003, MEDLINE was reloaded.  See HELP RLOAD for details.

 MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
 MeSH 2003 vocabulary.  See http://www.nlm.nih.gov/mesh/changes2003.html
 for a description on changes.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> E HEATH E M/AU 25
E1           10     HEATH E I/AU
E2            2     HEATH E J/AU
E3           15 --> HEATH E M/AU
E4            8     HEATH E S/AU
E5            1     HEATH EDWARD M/AU
E6            2     HEATH ELISABETH I/AU
E7            1     HEATH ELIZABETH I/AU
E8            1     HEATH ELLEN M/AU
E9            1     HEATH EMMA K/AU
E10           2     HEATH ERICA/AU
E11           1     HEATH ERICA J/AU
E12          13     HEATH F/AU
E13           1     HEATH F C/AU
E14           3     HEATH F R/AU
E15           1     HEATH FRACICA L A/AU
E16          19     HEATH G/AU
E17           9     HEATH G A/AU
E18          18     HEATH G B/AU
E19           1     HEATH G C/AU
E20           9     HEATH G E/AU
E21           5     HEATH G F/AU
E22          14     HEATH G G/AU
E23           3     HEATH G H/AU
E24           2     HEATH G L/AU
E25           1     HEATH G R/AU

=> S (E8)
L5            1 ("HEATH ELLEN M"/AU)
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=> DIS L5 1 IBIB ABS

L5 ANSWER 1 OF 1 MEDLINE
ACCESSION NUMBER: 2002125907 MEDLINE
DOCUMENT NUMBER: 21849689 PubMed ID: 11860298
TITLE: Utilizing genomic DNA purified from clotted blood samples for single nucleotide polymorphism genotyping.
AUTHOR: Adkins Karissa K; Strom Daniel A; Jacobson Thomas E; Seemann Cara R; O'Brien Darin P; **Heath Ellen M**
CORPORATE SOURCE: Gentra Systems Inc, Minneapolis, MN 55441, USA.
SOURCE: ARCHIVES OF PATHOLOGY AND LABORATORY MEDICINE, (2002 Mar) 126 (3) 266-70.
Journal code: 7607091. ISSN: 0003-9985.
PUB. COUNTRY: United States
DOCUMENT TYPE: (EVALUATION STUDIES)
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 200203
ENTRY DATE: Entered STN: 20020226
Last Updated on STN: 20020403
Entered Medline: 20020327

AB CONTEXT: Linking single nucleotide polymorphisms to disease etiology is expected to result in a substantial increase in the number of genetic tests available and performed at clinical laboratories. Whole blood serves as the most common DNA source for these tests. Because the number of blood samples rises with the number of genetic tests performed, alternative DNA sources will become important. One such alternative source is clotted blood, a by-product of serum extraction. Efficiently using an already procured blood sample would limit the overall number of samples processed by clinical laboratories. OBJECTIVE: To determine if DNA purified from clotted blood can be effectively used for single nucleotide polymorphism genotyping. DESIGN: DNA was purified from the clotted blood of 15 donors. Single nucleotide polymorphism genotyping for the methylenetetrahydrofolate reductase and factor V Leiden mutations was performed with each DNA sample by 2 independent methods. RESULTS: High-quality DNA was obtained from each of the 15 individual clotted blood samples as demonstrated by UV spectrophotometric analysis, gel electrophoresis, and polymerase chain reaction amplification. The DNA was used successfully to obtain genotype data from both the methylenetetrahydrofolate reductase and factor V single nucleotide polymorphism assays for all samples tested. CONCLUSIONS: Clotted blood is a clinically abundant sample type that can be used as a source of high-quality DNA for single nucleotide polymorphism genotyping.

=> d his

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FILE 'BIOSIS, EMBASE, MEDLINE, LIFESCI, CAPLUS' ENTERED AT 12:16:16 ON 02 JUL 2003
L1 3627036 S DNA (2A) ISOLAT? OR EXTRACT? OR PURIF?
L2 347 S L1 AND HIGH (1A) SALT (2A) SOLUTION
L3 4 S L2 AND LYSIS
L4 2 DUP REM L3 (2 DUPLICATES REMOVED)

FILE 'MEDLINE' ENTERED AT 12:18:58 ON 02 JUL 2003
E HEATH E M/AU 25
L5 1 S (E8)

NCBI PubMed National Library of Medicine NLM

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Bo

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J Vet Intern Med. 2002 Jul-Aug;16(4):433-9.
PMID: 12141305 [PubMed - indexed for MEDLINE]

2: Heath EM, Coleman KJ. Related Articles, Links

Evaluation of the institutionalization of the coordinated approach to child health (CATCH) in a U.S./Mexico border community.
Health Educ Behav. 2002 Aug;29(4):444-60.
PMID: 12137238 [PubMed - indexed for MEDLINE]

3: Adkins KK, Strom DA, Jacobson TE, Seemann CR, O'Brien DP, Heath EM. Related Articles, Links

Utilizing genomic DNA purified from clotted blood samples for single nucleotide polymorphism genotyping.
Arch Pathol Lab Med. 2002 Mar;126(3):266-70.
PMID: 11860298 [PubMed - indexed for MEDLINE]

4: Heath EM, Morken NW, Campbell KA, Tkach D, Boyd EA, Strom DA. Related Articles, Links

Use of buccal cells collected in mouthwash as a source of DNA for clinical testing.
Arch Pathol Lab Med. 2001 Jan;125(1):127-33.
PMID: 11151066 [PubMed - indexed for MEDLINE]

5: Heath EM, O'Brien DP, Banas R, Naylor EW, Dobrowolski S. Related Articles, Links

Optimization of an automated DNA purification protocol for neonatal screening.
Arch Pathol Lab Med. 1999 Dec;123(12):1154-60.
PMID: 10583919 [PubMed - indexed for MEDLINE]

6: Blackwell JR, Kornatz KW, Heath EM. Related Articles, Links

Effect of grip span on maximal grip force and fatigue of flexor digitorum superficialis.
Appl Ergon. 1999 Oct;30(5):401-5.
PMID: 10484275 [PubMed - indexed for MEDLINE]

☐ **7:** Heath EM, Adams TD, Daines MM, Hunt SC. Related Articles, Links

Bioelectric impedance and hydrostatic weighing with and without head submersion in persons who are morbidly obese.
J Am Diet Assoc. 1998 Aug;98(8):869-75.
PMID: 9710656 [PubMed - indexed for MEDLINE]

☐ **8:** Loucks AB, Verdun M, Heath EM. Related Articles, Links

Low energy availability, not stress of exercise, alters LH pulsatility in exercising women.
J Appl Physiol. 1998 Jan;84(1):37-46.
PMID: 9451615 [PubMed - indexed for MEDLINE]

☐ **9:** Farkas DH, Drevon AM, Kiechle FL, DiCarlo RG, Heath EM, Crisan D. Related Articles, Links

Specimen stability for DNA-based diagnostic testing.
Diagn Mol Pathol. 1996 Dec;5(4):227-35. Erratum in: Diagn Mol Pathol 1997 Jun;6(3):178.
PMID: 8955613 [PubMed - indexed for MEDLINE]

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Pregnancy weight retention in morbid obesity.
Obes Res. 1995 Mar;3(2):121-30.
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☐ **11:** Loucks AB, Heath EM. Related Articles, Links

Dietary restriction reduces luteinizing hormone (LH) pulse frequency during waking hours and increases LH pulse amplitude during sleep in young menstruating women.
J Clin Endocrinol Metab. 1994 Apr;78(4):910-5.
PMID: 8157720 [PubMed - indexed for MEDLINE]

☐ **12:** Loucks AB, Heath EM. Related Articles, Links

Induction of low-T3 syndrome in exercising women occurs at a threshold of energy availability.
Am J Physiol. 1994 Mar;266(3 Pt 2):R817-23.
PMID: 8160876 [PubMed - indexed for MEDLINE]

☐ **13:** Heath EM, Wilcox AR, Quinn CM. Related Articles, Links

Effects of nicotinic acid on respiratory exchange ratio and substrate levels during exercise.
Med Sci Sports Exerc. 1993 Sep;25(9):1018-23.
PMID: 8231769 [PubMed - indexed for MEDLINE]

☐ **14:** Heath DA, Heath EM. Related Articles, Links

Conservative management of primary hyperparathyroidism.
J Bone Miner Res. 1991 Oct;6 Suppl 2:S117-20; discussion S121-4.
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☐ **15:** Heath EM, Simmons MJ. Related Articles, Links

Genetic and molecular analysis of repression in the P-M system of hybrid dysgenesis in Drosophila melanogaster.
Genet Res. 1991 Jun;57(3):213-26.
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☐ **16:** Laurie CC, Heath EM, Jacobson JW, Thomson MS. Related Articles, Links

Genetic basis of the difference in alcohol dehydrogenase expression between Drosophila melanogaster and Drosophila simulans.
Proc Natl Acad Sci U S A. 1990 Dec;87(24):9674-8.
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Dose determinations for waterborne 2,5,2',5'-[14C]tetrachlorobiphenyl and related pharmacokinetics in two species of trout (Salmo gairdneri and Salvelinus fontinalis): a mass-balance approach.
Toxicol Appl Pharmacol. 1983 Apr;68(2):177-87.
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